



Du
04
NOV.
2015

14h00
-
15h30

RÉGA

Dmitry Sustretov "Gromov-Hausdorff limits of maximally degenerate families of Calabi-Yau manifolds via model theory"

IHP
Salle 314

INSCRIPTION

Dmitry Sustretov (Einstein Institute of Mathematics)
Gromov-Hausdorff limits of maximally degenerate families of Calabi-Yau manifolds via model theory

In their 2001 paper "Homological mirror symmetry and torus actions" Kontsevich and Soibelman made a series of conjectures about properties of Gromov-Hausdorff limits of certain families of Calabi-Yau manifolds with the view of applying these to the SYZ conjecture. The limits are conjectured to be of half real dimension of the family and to possess a canonical affine structure. In this talk I will make an overview of a model-theoretic approach to computation of Gromov-Hausdorff limits which uses a certain tame geometric setting called o-minimality and explain its relation to the conjectures of Kontsevich and Soibelman. No prior exposure to model theory will be assumed.

URL de la page : https://www.ihp.fr/fr/agenda/dmitry-sustretov-gromov-hausdorff-limits-maximally-degenerate-families-calabi-yau-manifolds&is_pdf=true



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L'institut :

- lundi au vendredi de 8h30 à 18h,
- fermé les jours fériés.

Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
- fermé le mercredi et le dimanche.